

CERTIFICATE OF MAILING 37 C.F.R. § 1.8(a)

SAMUEL W. APICELLI, REGISTRATION NO. 36,427, HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ON THE DATE BELOW AND ADDRESSED TO MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

Date of Deposit: October 31, 2005

Samuel W. Apicelli
Samuel W. Apicelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of: John H. ROSENFELD
et al.

Serial No.: 10/829,104 Examiner: Unassigned
Filed: 21 April 2004 Group Art Unit: 3743

For: HEAT TRANSFER DEVICE AND METHOD OF MAKING
SAME

TRANSMITTAL LETTER

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please find enclosed for filing:

- ☒ Information Disclosure Statement, PTO-1449 and references.
- ☒ Should any fees be incurred please debit Deposit Account No. 04-1679.
This Transmittal Letter is submitted in duplicate.
- ☒ Return Postcard

Respectfully submitted,

Date: 10/31/05

Samuel W. Apicelli
Samuel W. Apicelli
Registration No. 36,427
Customer No. 41396
DUANE MORRIS, LLP
30 South 17th Street
Philadelphia, PA 19103-4196
(215) 979-1255

Docket No.: H1799-00219



CERTIFICATE OF MAILING 37 C.F.R. § 1.8(a)

I, SAMUEL W. APICELLI, REGISTRATION NO. 36,427, HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ON THE DATE BELOW AND ADDRESSED TO MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450

Date of Deposit

October 31, 2005

22313-1450

Samuel W. Apicelli

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of: John H. ROSENFELD et al.

Serial No.: 10/829,104 Examiner: Unassigned

Filed: 21 April 2004 Group Art Unit: 3743

For: HEAT TRANSFER DEVICE AND METHOD OF MAKING
SAME

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the Duty of Disclosure set forth in 37 CFR 1.56, the materials listed on the enclosed form PTO-1449 are hereby brought to the attention of the Examiner. A copy of Japan Patent No. 51-11006 with an English Language Abstract, Japan Patent No. 59-24538 with an English Language Abstract, and each non-patent reference, is enclosed.

This Information Disclosure Statement is submitted prior to the mailing date of the first Office Action on the merits received by Applicants.



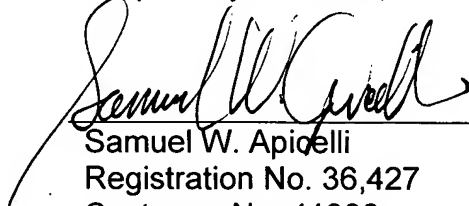
Serial No. 10/829,104

The claimed invention is patentable over the enclosed references. No representations are made regarding the references other than those set forth above.

The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Date: 10/31/05

Respectfully submitted,

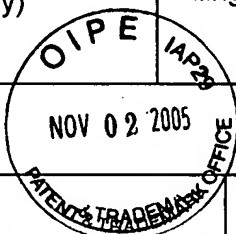


Samuel W. Apicelli
Registration No. 36,427
Customer No. 41396
DUANE MORRIS, LLP
30 South 17th Street
Philadelphia, PA 19103-4196
(215) 979-1255

Docket No. H1799-00219

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS



*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,537,514	March 1969	Levedahl			
	3,598,180	August 1971	Moore			
	3,613,778	October 1971	Feldman			
	3,675,711	April 1970	Bilinski et al.			
	3,681,843	August 1972	Arcella et al.			
	3,762,011	October 1973	Staudhammer			
	3,788,388	January 1974	Barkmann			
	4,042,316	August 1977	Rabe			
	4,046,190	Sept. 1977	Marcus et al.			
	4,058,299	November 1977	Lindkvist			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	INVENTOR	APPLICANT	TRANSLATION	
						YES	NO

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

	Rosenfeld, J.H., "Nucleate Boiling Heat Transfer in Porous Wick Structures," ASME HTD Vol. 108, <i>Heat Transfer Fundamentals, Design, Applications, and Operating Problems</i> , R.H. Shah, Ed., pp. 47-55, 1989
	Rosenfeld, J.H. and J.E. Lindemuth, "Acetone Heat Pipes for Stirling Orbiter Refrigerator/Freezer," Contract G350240J70 – final report to GE Gov't. Service, 16 April 1993
	McDonald, K.E., Berchowitz, D., Rosenfeld, J.H., and Lindemuth, J.E., "Stirling Refrigerator for Space Shuttle Experiments," Proc. 29 th IECEC, paper 94-4179, pp. 1807-1812, 1994
	Lindemuth, J.E., "Stainless Steel/Propylene Heat Pipe Interface for Stirling Orbiter Refrigerator/Freezer," NASA LeRC final report, PO. No. C-76546-F, 21 April 1998
	Rosenfeld, J.H. and Lindemuth, J.E., "Heat Transfer in Sintered Groove Heat Pipes," International Heat Pipe Conference, 1999
	Rosenfeld, J.H. and North, M.T., "Porous Media Heat Exchangers for Cooling of High-Power Optical Components," <i>Optical Engineering</i> , Vol. 34, No. 2, pp. 335-341, February 1995
	Rosenfeld, J.H., Toth, J.E., and Phillips, A.L., "Emerging Applications for Porous Media Heat Exchangers," Proc. Int. Conf. on Porous Media and Their Applications in Science, Eng., and Industry, Kona, HI, 16-21 June 1996.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,109,709	August 1978	Honda et al.			
	4,116,266	Sept. 1978	Sawata et al.			
	4,118,756	October 1978	Nelson et al.			
	4,177,646	December 1979	Guadagnin et al.			
	4,186,796	February 1980	Usui			
	4,231,423	November 1980	Haslett			
	4,274,479	June 1981	Eastman			
	4,279,479	July 1981	Schrier			
	4,327,752	May 1982	Hickel			
	4,354,482	October 1982	Beisecker			
	4,361,133	November 1982	Bonnema			
	4,365,851	December 1982	Andres et al.			
	4,366,526	December 1982	Lijoi et al.			
	4,374,528	February 1983	Tittert			
	4,382,448	May 1983	Tittert			
	4,489,777	December 1984	Del Bagno et al.			
	4,503,483	March 1985	Basiulis			
	4,557,413	December 1985	Lewis et al.			
	4,616,699	October 1986	Grote			
	4,641,404	February 1987	Seydel et al.			
	4,697,205	Sept. 1987	Eastman			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	INVENTOR	APPLICANT	TRANSLATION	
						YES	NO

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,748,314	May 1988	Desage			
	4,765,396	August 1988	Seidenberg			
	4,777,561	October 1988	Murphy et al.			
	4,807,697	February 1989	Gernert et al.			
	4,819,719	April 1989	Grote et al.			
	4,830,097	May 1989	Tanzer			
	4,840,224	June 1989	Dietzsch			
	4,865,719	Sept. 1989	Saxena et al.			
	4,880,052	November 1989	Meyer, IV et al.			
	4,883,116	November 1989	Seidenberg et al.			
	4,885,129	December 1989	Leonard et al.			
	4,912,548	March 1990	Shanker et al.			
	4,921,041	May 1990	Akachi			
	4,929,414	May 1990	Leonard et al.			
	4,931,905	June 1990	Cirrito et al.			
	4,960,202	October 1990	Rice et al.			
	4,982,274	January 1991	Murase et al.			
	5,059,496	October 1991	Sindorf			
	5,076,352	December 1991	Rosenfeld et al.			
	5,101,560	April 1992	Leonard et al.			
	5,103,897	April 1992	Cullimore et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	INVENTOR	APPLICANT	TRANSLATION	
						YES	NO

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,148,440	Sept. 1992	Duncan			
	5,160,252	November 1992	Edwards			
	5,200,248	April 1993	Thompson et al.			
	B1 5,200,248	February 1999	Thompson et al.			
	5,219,020	June 1993	Akachi			
	5,242,644	Sept. 1993	Thompson et al.			
	5,253,702	October 1993	Davidson et al.			
	5,268,812	December 1993	Conte			
	5,283,715	February 1994	Carlsten et al.			
	5,283,729	February 1994	Lloyd			
	5,320,866	June 1994	Leonard			
	5,331,510	July 1994	Ouchi et al.			
	5,333,470	August 1994	Dinh			
	5,349,237	Sept. 1994	Sayka et al.			
	5,408,128	April 1995	Furnival			
	5,409,055	April 1995	Tanaka et al.			
	5,522,455	June 1996	Brown et al.			
	5,549,394	August 1996	Nowak et al.			
	5,664,890	Sept. 1997	Nowak et al.			
	5,711,816	January 1998	Kirlin et al.			
	5,769,154	June 1998	Adkins et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	INVENTOR	APPLICANT	TRANSLATION	
						YES	NO

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS S	SUBCLASS	FILING DATE IF APPROPRIATE
	5,826,645	October 1998	Meyer IV et al.			
	5,847,925	December 1998	Progl et al.			
	5,880,524	March 1999	Xie			
	5,883,426	March 1999	Tokuno et al.			
	5,884,693	March 1999	Austin et al.			
	5,890,371	April 1999	Rajasubramanian et al.			
	5,947,193	Sept. 1999	Adkins et al.			
	5,950,710	Sept. 1999	Liu			
	6,041,211	March 2000	Hobson et al.			
	6,055,157	April 2000	Bartilson			
	6,055,297	April 2000	Terry			
	6,056,044	May 2000	Benson et al.			
	6,076,595	June 2000	Austin et al.			
	6,082,443	July 2000	Yamamoto et al.			
	6,148,906	November 2000	Li et al.			
	6,154,364	November 2000	Girrens et al.			
	6,158,502	December 2000	Thomas			
	6,167,948 B1	January 2001	Thomas			
	6,169,852 B1	January 2001	Liao et al.			
	6,227,287 B1	May 2001	Tanaka et al.			
	6,230,407 B1	May 2001	Akutsu			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket No. H1799-00219	Serial No. 10/829,104
	Applicant: John H. ROSENFELD et al.	
	Filing Date: 21 April 2004	Group Art Unit 3743

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,239,350 B1	May 2001	Sievers et al.			
	6,256,201 B1	July 2001	Ideda et al.			
	6,293,333 B1	Sept. 2001	Ponnappan et al.			
	6,302,192 B1	October 2001	Dussinger et al.			
	6,303,081 B1	October 2001	Mink et al.			
	6,382,309 B1	May 2002	Kroliczek et al.			
	6,388,882 B1	May 2002	Hoover et al.			
	6,397,935 B1	June 2002	Yamamoto et al.			
	6,418,017 B1	July 2002	Patel et al.			
	6,460,612 B1	October 2002	Sehmbey et al.			
	6,619,384 B2	Sept. 2003	Moore			
	2003/014045 A1	July 2003	Oh et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	INVENTOR	APPLICANT	TRANSLATION	
						YES	NO
	JP 51-11006	January 28, 1976	Japan		Tokico		x
	JP 59-24538 A	February 8, 1984	Japan		Japan Radio		x

OTHER (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.